Referring to the Literal Translation of International Application PCT/DE2004/002773

In the Claims:

1. (Original) A sensor transponder (1) with a facility for transmitting measurement data from a tyre (9) to a receiving facility and at least one acceleration sensor, characterised in that the sensor transponder (1) is fitted on an inner side of the running surface (2) of the tyre (9).

2. (Original) A sensor transponder (1) according to claim 1, characterised in that as a receiving facility, a receiving antenna is fitted, which is preferably arranged in a vehicle.

3. (Original) A sensor transponder (1) according to claim 2, characterised in that the receiving antenna is also designed as a transmitting antenna.

Claims 4 to 7 (Canceled).

8. (Original) A procedure for calculating a tyre contact length (6), whereby a sensor transponder (1) is fitted with at least one acceleration sensor arranged on the inner side of a running surface (2) of a tyre (9), the signals from the acceleration sensor are compared with threshold values

and are then integrated, and the tyre contact length (6) is calculated independently of the velocity using quotient formation.

9. (Original) A procedure according to claim 8, characterised in that the tyre contact area (tread) is calculated from the tyre contact length (6) using tyre-specific parameters.

10. (Original) A procedure according to claim 9, characterised in that the wheel load is calculated using the tyre contact area and the tyre pressure.

[REMARKS FOLLOW ON NEXT PAGE]